

CONTROL DATA® 669 SERIES MAGNETIC TAPE TRANSPORTS

CONTROL DATA
CORPORATION



The CONTROL DATA 669 Series Magnetic Tape Transports are 9-track members of a new CDC® tape transport family. These units have been specially developed to provide high levels of performance, reliability and maintainability, based on the latest technology.

Tape motion is accomplished by a single capstan which is controlled by a digital tachometer. The slightest speed variation in the capstan drive is sensed by the tachometer, and corrective signals are generated to ensure precise data recording. Vacuum columns act as buffers between the synchronous tape speed, as produced by the capstan, and asynchronous motion, as produced by the reel-drive servo system. Reel-drive servos are controlled by photoelectric cells in the vacuum columns. Air bearings and ceramic guides are used at critical points throughout the tape path and allow only the read/write head and tape cleaners to come into contact with the tape. Hence, maximum tape life is ensured, with minimum contamination. Automatic reel hub latching, cartridge load, automatic threading, plus a power-operated window are added features designed to minimize tape handling and decrease loading operation time.

The 669 provides 9-track industry compatibility, using 800-CPI NRZI or 1600-CPI Phase-encoded formats which are selectable under program control. Tape speeds include 100, 150 and 200 inches per second, allowing transfer rates up to 320,000 characters per second. Operational modes include forward and reverse read. The 669 Tape Transport connects to the CDC 7021/7622 Magnetic Tape Controller.

SPECIFICATIONS

Tape

Width: ½ inch
Length: 2400 feet
Reels: 10½ inch, ANSI-compatible hub with file-protect ring
Hubs: One automatic-supply reel latch
One fixed automatic-loading reel

Recording Formats

Nine-track Recording: NRZI; non-return-to-zero, change-on-ones; phase-encoded

	Model Numbers		
	669-2	669-3	669-4
Speed (Inches per Second)	100	150	200
Transfer Rates (Char. per Sec.)			
1600 CPI PE:	160,000	240,000	320,000
800 CPI NRZI:	80,000	120,000	160,000
Rewind Time (2400 feet/reel)	60 sec.	50 sec.	45 sec.
Start Time (milliseconds)	1.8	1.8	1.8
Stop Time (milliseconds)	3.0	3.0	2.0

Physical/Electrical Characteristics

Height: 63 inches
Width: 30.5 inches
Depth: 30 inches
Weight: 900 pounds

Power Requirements:

60-Hz, 208V, 3-phase, 20-amp circuit
50-Hz, 380V, 3-phase, 30-amp circuit

Specifications subject to change without notice.